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PATENT APPLICATION
Docket No. 16274.176

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of)
)
	Larson)
)
Serial No.:	10/759,890) Art Unit
) 2841
Filed:	January 16, 2004)
)
For:	ACTUATOR FOR SMALL FORM-FACTOR PLUGGABLE TRANSCEIVER)
)
Confirmation No.:	8461)
)
Customer No.:	022913)
)
Examiner:	Dameon E. Levi)

AMENDMENT "A" AND RESPONSE UNDER 37 C.F.R. § 1.111

Mail Stop: AMENDMENT
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Dear Sir:

Applicant submits this paper in response to the Office Action mailed March 28, 2006 (the "Office Action"). Reconsideration is respectfully requested in view of the following amendments and remarks:

Amendments to the Specification begin on page 2 of this paper;

Amendments to the Claims are reflected in the listing of claims which begins on page 3 of this paper; and

Remarks begin on page 8 of this paper.

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AMENDMENTS TO THE CLAIMS

Please amend claim 5 and add new claims 21-24. No new matter is believed to be introduced by the aforementioned amendment and new claims. The following listing of claims will replace all prior versions and listings of claims in the application.

1. **(Original)** A transceiver module inserted within a cage having a cage latch that retains the transceiver module in the cage, the transceiver module comprising:
 - a ramp;
 - a release mechanism mounted to the transceiver module and movable between at least a first position and a second position; and
 - a movable actuator coupled to the release mechanism, wherein the actuator does not deflect the cage latch when the release mechanism is in the first position, wherein the actuator moves along the ramp as the release mechanism is moved from the first position to the second position, and wherein the actuator deflects the cage latch when the release mechanism is in the second position such that the transceiver module can be removed from the cage.
2. **(Original)** The transceiver module of claim 1 wherein the actuator has an actuator arm to engage the release mechanism and wherein the actuator has tines configured to move along the ramp.
3. **(Original)** The transceiver module of claim 2 wherein the tines are shaped to slope upward from the actuator.
4. **(Original)** The transceiver module of claim 1 further including a projection configured to engage the latch of the cage.
5. **(Currently Amended)** The transceiver module of claim 4 wherein the cage latch has a slot through which the projection projects when the release mechanism is in the first position and wherein the projection is removed from the slot when the actuator deflects the cage latch when the release mechanism is in the second position.
6. **(Original)** The transceiver module of claim 1 wherein the release mechanism is a rotatable handle mounted to the transceiver module.

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7. (Original) The transceiver module of claim 6, wherein the transceiver module has a front face and wherein the handle is in the first position when it extends parallel to the front face and wherein the handle is in the second position when it extends perpendicular to the front face.

8. (Original) The transceiver module of claim 6, wherein the transceiver module has a front face and wherein the handle is in the first position when it extends parallel to the front face and wherein the handle is in the second position when it extends at an angle 50 degrees relative to the front face.

9. (Original) A transceiver module with an interface surface received within a cage, the cage including a cage latch that retains the transceiver module, the transceiver module comprising:

a ramp on the interface surface of the transceiver module, the ramp having a ramp surface that slopes away from the interface surface of the transceiver module and toward the cage latch;

an actuator adjacent the interface surface of the transceiver module and configured to be movable on the ramp surface;

a release handle mounted on the transceiver module and coupled to the actuator such that rotating the release handle in a first direction causes the actuator to move along the ramp surface toward the cage latch thereby moving the cage latch away from the interface surface and such that rotating the release handle in a second direction causes the actuator to move along the ramp surface toward the interface surface and away from the cage latch.

10. (Original) The transceiver module of claim 9 wherein the actuator has an actuator arm to engage the release handle and wherein the actuator has tines configured to move along the ramp surface.

11. (Original) The transceiver module of claim 10 wherein the tines are shaped to slope upward from the actuator.

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12. (Original) The transceiver module of claim 9 further including a projection configured to project away from the interface surface and toward the cage such that the projection engages the cage latch when the actuator has not moved the cage latch away from the interface surface and such that the projection does not engage the cage latch when the actuator has moved the cage latch away from the interface surface.

13. (Original) The transceiver module of claim 12 wherein the cage latch has a slot through which the projection projects when the actuator has not moved the cage latch away from the interface surface.

14. (Original) The transceiver module of claim 12 wherein the release handle can be rotated in the first direction such that the actuator moves cage latch away from the interface surface sufficient to provide clearance between the cage latch and the projection so that the transceiver module can be removed from the cage.

15. (Original) The transceiver module of claim 9 wherein the ramp surface is linear.

16. (Original) The transceiver module of claim 9 wherein the ramp surface is curved away from the interface surface.

17. (Original) A data transmission system comprising:

a printed circuit board;

a cage structure fixed to the printed circuit board, the cage structure having an opening and a latch adjacent the opening, the latch further including a latch slot; and

a transceiver module pluggable into the opening of the cage structure, the transceiver module having a module projection, a ramp, a release mechanism and an actuator, wherein the transceiver module is retained within the cage by the engagement of the module projection with the latch slot and wherein the transceiver module is removable from the cage by moving the release mechanism such that it forces the actuator along the ramp such that the actuator engages the cage latch and frees the module projection from the latch slot.

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18. (Original) The data transmission system of claim 17, wherein the release mechanism is a rotatable handle mounted on the transceiver module, and wherein the transceiver module has a front face.

19. (Original) The data transmission system of claim 18, wherein the transceiver module is retained within the cage by the engagement of the module projection with the latch slot when the handle extends parallel to the front face.

20. (Original) The data transmission system of claim 18, wherein the transceiver module is removable from the cage as the cage latch is free of the module projection when the handle extends at an angle 50 degrees relative to the front face.

21. (New) The transceiver module of claim 1, further comprising a body having a top surface, and wherein the ramp is disposed on the top surface of the body.

22. (New) The transceiver module of claim 1, wherein the ramp comprises a plurality of ramps disposed on the transceiver module.

23. (New) The transceiver module of claim 22, wherein the actuator has a plurality of tines, each tine being configured to move along a separate ramp of the plurality of ramps.

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24. (New) A transceiver module, comprising:
- a latch portion configured and arranged to selectively engage corresponding structure of a cage;
 - a handle including a cam portion; and
 - an actuator operably disposed with respect to the cam portion so as to be movable by way of the handle such that:
 - when the handle is in a first position, the position of the actuator corresponds with an engagement of the corresponding structure of the cage by the latch portion; and
 - when the handle is in a second position, the position of the actuator corresponds with a deflection of the corresponding structure of the cage that the latch portion is disengaged from the corresponding structure of the cage.